



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,699	11/30/2001	Karl P. Hauck	57121US002	6663

32692 7590 04/19/2005

3M INNOVATIVE PROPERTIES COMPANY
PO BOX 33427
ST. PAUL, MN 55133-3427

EXAMINER

DHARIA, PRABODH M

ART UNIT PAPER NUMBER

2673

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/998,699	Applicant(s) HAUCK ET AL.	
	Examiner Prabodh M Dharia	Art Unit 2673	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 December 2004.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-14 and 16-29 is/are rejected.
- 7) ☒ Claim(s) 3,15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>05-31-0209-06-04</u> . | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2673

1. **Status:** Receipt is acknowledged of papers submitted on 12-21-2004 under amendments have been placed of record in the file. Claims 1-29 are pending in this action.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1,2,4-14,16-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gillespie et al. (US 2004/0178997 A1) in view of Meadows (5,053,757).

Regarding Claim 1, Gillespie et al. teaches a touch screen calibration system (page 13, paragraphs 168, 170,171) comprising: a touch screen (page 13, paragraphs 168,170,171) having a plurality of terminals (page 2, paragraph 16, Lines 3-7, page 4, paragraph 42,52, page 13, paragraph 170, Lines 3-16); a control circuit for applying at least one signal to said terminals (page 13, paragraphs 172,173, page 14, paragraphs 179,181), and sensing an effect on the signal due to a touch on the touch screen (page 14, paragraphs 179,181,182); a switching circuit for applying a calibration impedance to the touch screen (page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169); a microprocessor configured to calculate a measurement error upon application of the calibration impedance (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132,

Art Unit: 2673

133, page 13, paragraphs 168, 169), and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position (page 11, paragraphs 147, 148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130, 132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169, 172, 173, page 14, paragraphs 179, 181, 182).

However, Gillespie et al. fails to teach a switching circuit for applying a calibration impedance to the touch screen; a microprocessor configured to calculate a measurement error upon application of the calibration impedance, and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position determined from ratios of currents flowing to the terminals.

However, Meadows teaches a switching circuit for applying a calibration impedance to the touch screen; a microprocessor configured to calculate a measurement error upon application of the calibration impedance, and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position determined from ratios of currents flowing to the terminals (Col. 2, Line 63 to Col. 3, Line 4, Col. 5, line 39 to Col. 7, Line 45, Col. 7, Lines 58-65, Col. 8, Line 43 to Col. 9, Line 54, it is well known to one in the ordinary skill in the art that touch position from a measured touch position determined from ratios of currents flowing to the terminals US 5,510,813, Col. 4, Lines 46-54, and also US 4,853,498, US 4,293,734).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was made to incorporate the teaching of Meadows in Gillespie et al. teaching, to be able to provide the use of adaptive or variable noise reduction methods and apparatus in a touch panel to enhance the accuracy of touch location determination.

Regarding Claim 2, Gillespie et al. teaches the microprocessor is further configured to interpolate the offsets as a function of relative X, Y positions of the measured touch position (page 12, paragraphs 154, 157-160, page 13, paragraphs 168, 169, 172, 173, page 14, paragraphs 179, 181, 182).

Regarding Claim 4, Gillespie et al. teaches the microprocessor is further configured to periodically operate the switching circuit (page 11, paragraphs 147, 148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130, 132, page 10, paragraphs 132, 133).

Regarding Claim 5, Gillespie et al. teaches the microprocessor is further configured to change the periodicity of operating the switching circuit in response to a predetermined change in a sensed quantity (page 11, paragraphs 147, 148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130, 132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169, 172, 173, page 14, paragraphs 179, 181, 182).

Regarding Claim 6, Gillespie et al. teaches the sensed quantity is temperature (page 11, paragraphs 147, 148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130, 131, 132, page 10, paragraphs 132, 133).

Regarding Claim 7, Gillespie et al. teaches the microprocessor is further configured to prevent operation of the switching circuit at least while the touch screen is actively in use (page

Art Unit: 2673

11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130, 131, 132, page 10, paragraphs 132, 133).

Regarding Claim 8, Gillespie et al. teaches a touch screen calibration system (page 13, paragraphs 168, 170,171) comprising: a touch screen (page 13, paragraphs 168,170,171) having a plurality of terminals (page 2, paragraph 16, Lines 3-7, page 4, paragraph 42,52, page 13, paragraph 170, Lines 3-16); a control circuit for applying at least one signal to said terminals (page 13, paragraphs 172,173, page 14, paragraphs 179,181).

Meadows teaches the plurality of terminals includes four terminals (Col. 6, Lines 44-47).

Regarding Claim 9, Meadows teaches the four terminals are located one in each corner of the touch screen (Col. 14, Lines 25-39).

Regarding Claim 10, Gillespie et al. teaches the same calibration impedance is applied to each terminal (page 9, paragraphs 130, 131, 132, page 10, paragraphs 132, 133).

Regarding Claim 11, Gillespie et al. teaches the touch screen is a capacitive touch screen (page 5, paragraph 83, Lines 1-6).

Regarding Claim 12, Meadows teaches the touch screen is a resistive touch screen (Col. 14, lines 25-39).

Art Unit: 2673

Regarding Claim 13, Gillespie et al. teaches a method for calibrating a touch screen (page 13, paragraphs 168, 170,171) comprising: applying at least one signal to said terminals (page 13, paragraphs 172,173, page 14, paragraphs 179,181), of a touch screen (page 13, paragraphs 168,170,171) and sensing an effect on the signal due to a touch on the touch screen (page 14, paragraphs 179,181,182); a switching circuit for applying a calibration impedance to the touch screen terminals (page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169); a microprocessor configured to calculate a measurement error upon application of the calibration impedance (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169), impedance applied to the calculating an X, Y position indicated for each terminal upon application of the calibration impedance (page 13, paragraph 169); and calculating an error for each terminal and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169,172,173, page 14, paragraphs 179,181,182).

Meadows teaches a switching circuit for applying a calibration impedance to the touch screen; a microprocessor configured to calculate a measurement error upon application of the calibration impedance, and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position determined from ratios of currents flowing to the terminals (Col. 2, Line 63 to Col. 3, Line 4, Col. 5, line 39 to Col. 7, Line 45, Col. 7, Lines 58-65, Col. 8, Line 43 to Col. 9, Line 54, it is well known to one in the ordinary skill in the art that touch position from a measured touch position determined from ratios of currents

Art Unit: 2673

flowing to the terminals US 5,510,813, Col. 4, Lines 46-54, and also US 4,853,498, US 4,293,734).

Regarding Claim 14, Gillespie et al. teaches interpolating the errors as a function of relative X, Y positions of the measured touch position (page 12, paragraphs 154, 157-160, page 13, paragraphs 168, 169, 172, 173, page 14, paragraphs 179, 181, 182).

Regarding Claim 16, Gillespie et al. teaches a touch screen calibration system (page 13, paragraphs 168, 170, 171) comprising: a touch screen (page 13, paragraphs 168, 170, 171) having a plurality of terminals (page 2, paragraph 16, Lines 3-7, page 4, paragraph 42, 52, page 13, paragraph 170, Lines 3-16); a control circuit for applying at least one signal to said terminals (page 13, paragraphs 172, 173, page 14, paragraphs 179, 181), and sensing an effect on the signal due to a touch on the touch screen (page 14, paragraphs 179, 181, 182); a switching circuit for applying a calibration impedance to the touch screen (page 9, paragraphs 130, 132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169); a microprocessor configured to calculate a measurement error upon application of the calibration impedance (page 11, paragraphs 147, 148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130, 132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169), and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position (page 11, paragraphs 147, 148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130, 132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169, 172, 173, page 14, paragraphs 179, 181, 182).

Art Unit: 2673

Meadows teaches a switching circuit for applying a calibration impedance to the touch screen; a microprocessor configured to calculate a measurement error upon application of the calibration impedance, and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position determined from ratios of currents flowing to the terminals (Col. 2, Line 63 to Col. 3, Line 4, Col. 5, line 39 to Col. 7, Line 45, Col. 7, Lines 58-65, Col. 8, Line 43 to Col. 9, Line 54, it is well known to one in the ordinary skill in the art that touch position from a measured touch position determined from ratios of currents flowing to the terminals US 5,510,813, Col. 4, Lines 46-54, and also US 4,853,498, US 4,293,734).

Regarding Claim 17, Meadows teaches the microprocessor is further configured to normalize the gain error (Col. 12, Lines 17-25, 36-43, Col. 17, Lines 35-37, Col. 20, Lines 14-27, Col. 31, Lines 50-59).

Regarding Claim 18, Meadows teaches the microprocessor is further configured to store the normalized gain error (Col. 32, Lines 7-20, Col. 12, Lines 17-25, 36-43, Col. 17, Lines 35-37, Col. 20, Lines 14-27, Col. 31, Lines 50-59).

Regarding Claim 19, Meadows teaches the microprocessor is further configured to apply the normalized gain error to the measured touch position (Col. 32, Lines 7-20, Col. 12, Lines 17-25, 36-43, Col. 17, Lines 35-37, Col. 20, Lines 14-27, Col. 31, Lines 50-59, Col. 30, Lines 33-33-36).

Art Unit: 2673

Gillespie et al. teaches the microprocessor is further configured to apply the normalized gain error to the measured touch position (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169).

Regarding Claim 20, Gillespie et al. teaches a method for calibrating a touch screen (page 13, paragraphs 168, 170,171) comprising: applying at least one signal to said terminals (page 13, paragraphs 172,173, page 14, paragraphs 179,181), of a touch screen (page 13, paragraphs 168,170,171) and sensing an effect on the signal due to a touch on the touch screen (page 14, paragraphs 179,181,182); a switching circuit for applying a calibration impedance to the touch screen terminals (page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169); a microprocessor configured to calculate a measurement error upon application of the calibration impedance (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169), impedance applied to the calculating an X, Y position indicated for each terminal upon application of the calibration impedance (page 13, paragraph 169); and calculating an error for each terminal and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169,172,173, page 14, paragraphs 179,181,182).

Meadows teaches a switching circuit for applying a calibration impedance to the touch screen; a microprocessor configured to calculate a measurement error upon application of the

Art Unit: 2673

calibration impedance, and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position determined from ratios of currents flowing to the terminals (Col. 2, Line 63 to Col. 3, Line 4, Col. 5, line 39 to Col. 7, Line 45, Col. 7, Lines 58-65, Col. 8, Line 43 to Col. 9, Line 54, it is well known to one in the ordinary skill in the art that touch position from a measured touch position determined from ratios of currents flowing to the terminals US 5,510,813, Col. 4, Lines 46-54, and also US 4,853,498, US 4,293,734).

Regarding Claim 21, Gillespie et al. teaches the touch screen is a capacitive touch screen (page 5, paragraph 83, Lines 1-6).

Regarding Claim 22, Meadows teaches the touch screen is a resistive touch screen (Col. 14, lines 25-39).

Regarding Claim 23, Gillespie et al. teaches a method for calibrating a touch screen (page 13, paragraphs 168, 170,171) comprising: applying at least one signal to said terminals (page 13, paragraphs 172,173, page 14, paragraphs 179,181), of a touch screen (page 13, paragraphs 168,170,171); sensing an effect on the signal due to a touch on the touch screen (page 14, paragraphs 179,181,182); calculate a measurement error upon application of the calibration impedance (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169), and applying error to obtain a corrected touch position from a measured touch position (page 11, paragraphs

Art Unit: 2673

147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169,172,173, page 14, paragraphs 179,181,182).

Meadows teaches a switching circuit for applying a calibration impedance to the touch screen; a microprocessor configured to calculate a measurement error upon application of the calibration impedance, and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position determined from ratios of currents flowing to the terminals (Col. 2, Line 63 to Col. 3, Line 4, Col. 5, line 39 to Col. 7, Line 45, Col. 7, Lines 58-65, Col. 8, Line 43 to Col. 9, Line 54, it is well known to one in the ordinary skill in the art that touch position from a measured touch position determined from ratios of currents flowing to the terminals US 5,510,813, Col. 4, Lines 46-54, and also US 4,853,498, US 4,293,734).

Regarding Claim 24, Gillespie et al. teaches the touch screen is a capacitive touch screen (page 5, paragraph 83, Lines 1-6).

Regarding Claim 25, Meadows teaches the touch screen is a resistive touch screen (Col. 14, lines 25-39).

Regarding Claim 26, Gillespie et al. teaches a method for calibrating a touch screen (page 13, paragraphs 168, 170,171) comprising: applying at least one signal to said terminals (page 13, paragraphs 172,173, page 14, paragraphs 179,181), of a touch screen (page 13, paragraphs 168,170,171); sensing an effect on the signal due to a touch on the touch screen (page 14, paragraphs 179,181,182); calculate a measurement error upon application of the calibration

Art Unit: 2673

impedance (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169), and applying error to obtain a corrected touch position from a measured touch position (page 11, paragraphs 147,148, 154, page 12, paragraphs 154, 157-160, page 9, paragraphs 130,132, page 10, paragraphs 132, 133, page 13, paragraphs 168, 169,172,173, page 14, paragraphs 179,181,182). and applying the error to determine if the touch screen is functioning within predetermined limits (page 12, paragraph 157, page 13, paragraphs 166,167).

Meadows teaches a switching circuit for applying a calibration impedance to the touch screen; a microprocessor configured to calculate a measurement error upon application of the calibration impedance, and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position determined from ratios of currents flowing to the terminals (Col. 2, Line 63 to Col. 3, Line 4, Col. 5, line 39 to Col. 7, Line 45, Col. 7, Lines 58-65, Col. 8, Line 43 to Col. 9, Line 54, it is well known to one in the ordinary skill in the art that touch position from a measured touch position determined from ratios of currents flowing to the terminals US 5,510,813, Col. 4, Lines 46-54, and also US 4,853,498, US 4,293,734).

Regarding Claim 27, Gillespie et al. teaches the touch screen is a capacitive touch screen (page 5, paragraph 83, Lines 1-6).

Regarding Claim 28, Meadows teaches the touch screen is a resistive touch screen (Col. 14, lines 25-39).

Art Unit: 2673

Regarding Claim 29, Meadows teaches the calibration impedance applied to each terminal (Col. 2, Line 63 to Col. 3, Line 4, Col. 5, line 39 to Col. 7, Line 45, Col. 7, Lines 58-65, Col. 8, Line 43 to Col. 9, Line 54).

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is informed that all of the other additional cited references either anticipate or render the claims obvious. In order to not to be repetitive and exhaustive, the examiner did draft additional rejection based on those references.

Response to Amendment

5. Applicant's request for withdrawing the objection to abstract of the non-final rejection mailed on 09-29-2004 of the last Office action acknowledged and the amendments to abstract overcomes the objection, therefore, the objection to abstract is withdrawn.

Allowable Subject Matter

6. Claim 3,15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is an examiner's statement of reasons for allowance:

a touch screen calibration system comprising: a touch screen having a plurality of terminals; a control circuit associated with each of the terminals for applying a signal to associated terminals, and sensing current flowing to the terminals due to a touch on the touch

Art Unit: 2673

screen; and **a switching circuit for applying a calibration impedance to the touch screen; a microprocessor configured to calculate a measurement error upon application of the calibration impedance, and responsive to a touch, to apply the measurement error to obtain a corrected touch position from a measured touch position determined from ratios of currents flowing to the terminals and the microprocessor is configured to interpolate the offsets using error correction equations containing coefficients calculated by solving simultaneous equations derived from a second order Taylor series expansion.**

The cited references of 892's fail to either anticipate individually or render obviousness individually as well as in combination the underlined bold claim above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

8. Applicant's arguments with respect to claims 1, 13, 16, 20, 23, 26, have been considered but are moot in view of the new ground(s) of rejection.

9. Applicant's arguments filed 12-21-2004 have been fully considered but they are not persuasive. Applicant argues the combination of Gillespie et al. and Meadows does not obviate.

Examiner disagrees: In response to applicant's argument that the combination of Gillespie et al. and Meadows does not obviate, the test for obviousness is not whether the features of a

Art Unit: 2673

secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 703-605-1231. The examiner can normally be reached on M-F 8AM to 5PM.

Art Unit: 2673

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703-3054938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

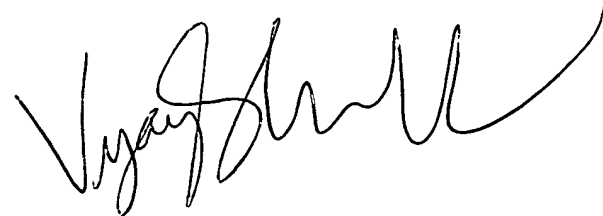
Commissioner of Patents and Trademarks

Washington, D.C. 20231

PD

AU2673

04-14-2005

A handwritten signature in black ink, appearing to read 'Vijay Shankar', with a stylized, flowing script.

VIJAY SHANKAR
PRIMARY EXAMINER